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ABSTRACT

Reactor device (R) for carrying out chemical reactions requiring heat exchange, said the reactor, which is elongate along an axis (XX'), having and has, at a first end, at least one means orifice (16) for supplying at least one reactant and, at an opposite end, at least one means orifice (18) for evacuating the effluents formed, and having a plurality of heat exchange means exchangers (12) separated by at least one internal partition (14) and passages for circulating the reactant or reactants and/or effluents, provided between said the heat exchange means exchangers and said the internal partitions.

— According to the invention, The reactor (R) has at least one enclosure (10) made of refractory material providing heat insulation and containing a heat exchange means exchangers (12) and internal partitions (14), and said. The enclosure is contained in an envelope (20) to contain the reactant or reactants and/or effluents circulating inside said the reactor.